1.017/1.010 Class 2 Descriptive Statistics

Characterizing data

Histograms, percentiles, mean, median, variance, boxplots. etc.

Internal MATLAB functions

Inputs, outputs

Exercise: Download and characterize peak flow data

Download years 1901 - 1963 of annual peak flows for Miss. river @ St. Louis (USGS Gage 07010000)

Data at http://waterdata.usgs.gov/nwis

Use textread function (check syntex in on-line MATEABCovementation):
 [peakflow] = textread ('peat Oat - %*s %*f ... %*s %f
 %*f %*s %*s', -1)
 Plot histograp semple CDF, compute mean, median, variance
Some elevant MATLAB functions: textread, hist, cdfplot, mean, mean,
median, var, std, boxplot



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